

ATTACHMENT J8

NAS Atlanta Wastewater System

Table of Contents

NAS ATLANTA WASTEWATER SYSTEM.....	I
J8 NAS ATLANTA WASTEWATER SYSTEM	2
J8.1 NAS ATLANTA OVERVIEW.....	2
J8.2 WASTEWATER SYSTEM DESCRIPTION	3
J8.2.1 Wastewater System Fixed Equipment Inventory.....	3
J8.2.1.1 Description.....	4
J8.2.1.2 Inventory.....	4
J8.2.2 Wastewater System Non-Fixed Equipment and Specialized Tools.....	6
J8.2.3 Wastewater System Manuals, Drawings, and Records.....	7
J8.3 SPECIFIC SERVICE REQUIREMENTS.....	7
J8.3.1 THREAT Compliance	7
J8.4 CURRENT SERVICE ARRANGEMENT.....	7
J8.5 SECONDARY METERING.....	8
J8.6 MONTHLY SUBMITTALS.....	8
J8.7 INFILTRATION AND INFLOW (I&I) PROJECTS.....	9
J8.8 SERVICE AREA.....	9
J8.9 OFF-INSTALLATION SITES.....	9
J8.10 SPECIFIC TRANSITION REQUIREMENTS.....	9
J8.11 GOVERNMENT RECOGNIZED SYSTEM DEFICIENCIES	9

List of Tables

Fixed Inventory.....	5
Spare Parts	6
Specialized Vehicles and Tools.....	6
Manuals, Drawings and Records.....	7
Service Connections and Disconnections.....	9
System Deficiencies.....	10

J8 NAS Atlanta Wastewater System

J8.1 NAS Atlanta Overview

Naval Air Station Atlanta (NAS Atlanta) occupies 139 acres of land located in northern Georgia between the cities of Marietta and Smyrna, approximately 16 miles northwest of downtown Atlanta. Collocated with NAS Atlanta are Dobbins ARB and Air Force Plant No. 6, an aircraft manufacturing plant located north of the base, which is leased and operated by Lockheed-Martin Aeronautical Systems Corporation. Dobbins ARB and Air Force Plant No. 6 have their own property, and are not situated within the 181 acres owned by the Navy. The base lies completely within Cobb County, Georgia.

The Windy Hill Marine Corps Training Site (Windy Hill Site), which is included in the privatization effort at NAS Atlanta, is located approximately 3 miles south from the base in the town of Smyrna, GA. Utility specific information for the Windy Hill wastewater collection system is found in Attachment J11.

Size of the Base:	
NAS Atlanta	139 Acres
Total Acreage	139 Acres

The base owns, operates, and maintains approximately 92 buildings classified as commercial/industrial facilities, and another 10 buildings are for family housing as summarized below.

Location	Commercial/Industrial Facilities	Family Housing Units
NAS Atlanta	92	10

History

The Navy Department selected Fort Gordon in late 1940 for a new Naval Reserve Aviation Base. Contractors quickly turned what used to be an infantry training center during World War I into an airfield. The new base was officially commissioned and opened for business March 22, 1941, with a primary mission of training Navy and Marine Corps aviators. The base was officially designated U.S. Naval Air Station Atlanta in January 1943.

In April 1955, Congress appropriated more than \$4 million to start building a new Naval Air Station at a more suitable location to allow longer runways. The site selected was a large military reservation jointly occupied by Dobbins Air Force Base and the Lockheed-Georgia Company, located between Marietta and Smyrna. The new air station was completed in April 1959. The Windy Hill Site was acquired from the Air Force in October 1971.

Current Mission

NAS Atlanta trains and supports 3,846 Navy and Marine Corps Reservists assigned to more than two dozen aviation and non-aviation units. A cadre of more than 1,397 active duty military and civilian personnel provide this training and support.

Mission Statement

The mission statement of NAS Atlanta is: Provide readiness training for assigned active duty and selected reserve personnel while maintaining our full commitment to support the requirements of tenant commands and the fleet.

Educational Facilities

N/A

Future Changes

There are no new missions or planned changes identified that would significantly effect the current operations, support, personnel, or utility functions at NAS Atlanta. However, there is project planned to repair one sanitary sewer lift station at NAS Atlanta.

PROJECT NUMBER	PROJECT DESCRIPTION
R13-98	Repair Sanitary Sewer Lift Station

J8.2 Wastewater System Description

J8.2.1 Wastewater System Fixed Equipment Inventory

The NAS Atlanta wastewater system consists of all appurtenance physically connected to the collection system from the point of demarcation defined by the Right of Way. The system may include, but is not limited to, pipelines, manholes, lift stations, valves, controls, treatment plants, and meters. The actual inventory of items sold will be in the bill of sale at the time the system is transferred. The following description and inventory is included to provide the Contractor with a general understanding of the size and configuration of the system. The Government makes no representation that the inventory is accurate. The Contractor shall base its proposal on site inspections, information in the technical library, other pertinent information, and to a lesser degree the following description and inventory. Under no circumstances shall the Contractor be entitled to any service cost adjustments based on the accuracy of the following description and inventory.

Specifically excluded from the wastewater system privatization are:

- Grease Traps
- Oil/Water Separators
- Septic Systems
- Pretreatment Systems

J8.2.1.1 Description

Naval Air Station Atlanta has both domestic sanitary sewage and industrial wastewater collection systems.

Sanitary Sewage

NAS Atlanta has a domestic sewage collection system that serves the entire base. The sewage is taken by gravity sewer lines, pump stations and force mains and is discharged into the off-site Air Force Plant No. 6 central treatment plant operated by Lockheed Martin Aeronautical Systems Company. NAS Atlanta has no sewage treatment equipment. Billings from Lockheed for sewage service are based on water usage. Average daily sewage flow at the main base is estimated at about 30,800 gallons per day (gpd) based on 70% capture of the potable water usage of 44,000 gpd (for the period from November 1997 through October 1998). Actual sewage flows may be higher depending on the contributions from inflow and infiltration.

Medical Building 550 discharges sewage directly into the Dobbins sewage collection system. The Jet Engine Test Facility 1009 generates no sewage and the Ordnance Complex has a septic tank system.

Domestic sewage is collected throughout NAS Atlanta through underground pipelines, ranging in size from 4 inches for house or building connections, to 8 inches for the main sewer connections. Most of the system is about 40 years old. Original pipe materials of construction included vitrified clay. Newer improvements include concrete and PVC.

Industrial Wastewater

NAS Atlanta has an industrial wastewater collection system separate from the domestic sewage system. Collection pipes sizes go up to 21 inches in diameter. There are two industrial wastewater pump stations. The collection system mainly collects oily wastewater and pumps it to the industrial wastewater treatment facility operated by Lockheed Martin off the NAS Atlanta property. Industrial flow is metered and averages about 56,000 gpd. The industrial wastewater flow rate includes rainwater infiltration at two existing aircraft washracks.

J8.2.1.2 Inventory

Table 1 provides a general listing of the major wastewater system fixed assets for the NAS Atlanta wastewater systems included in the purchase.

TABLE 1
Fixed Inventory
Wastewater System, NAS Atlanta

NAS Atlanta Domestic Sewage Inventory

Component Item	Size	Quantity	Unit of Measure	Material Type ¹	Approximate Year of Installation
Piping (Force Main)	1.5"	415	LF	CI	1959
Piping	4"	2,296	LF	VC	1959
Piping	6"	4,433	LF	VC	1959
Piping	8"	5,906	LF	DI	1959
	8"	450	LF	DI	1959
Cleanout Tee	6"	5	EA	VC	1959
Manholes	4' ID riser, 8' deep	38	EA	Brick	1959
Sewage Pumping Stations					
	265 GPM	1	EA		1959
	Unknown	1	EA		1959
	15 HP	1	EA		1969
	Unknown	1	EA		1996
Legend:		Notes:			
CI - Cast Iron DI-Ductile Iron		1. Drawings furnished by Naval Air Station do not always indicate material types. Some material types have been assumed and may not necessarily reflect the actual material in place.			
EA – Each PVC - Polyvinyl Chloride					
LF - Linear Feet VC - Vitrified Clay					
HP-Horse Power GPM - Gallons Per Minute					

NAS Atlanta Industrial Sewage Inventory

Component Item	Size	Quantity	Unit of Measure	Material Type ¹	Approximate Year of Installation
Piping (Force Main)	4"	415	LF	CI	1959

Piping		6"	2,296	LF	VC	1959
Piping		21"	4,433	LF	DI	1959
Cleanout Tee		6"	3	EA	VC	1959
Manholes	4' ID riser, 8' deep		20	EA	Brick	1959
Lift Stations		145 GPM	1	EA		1974
		Unknown	1	EA		1998
Legend: CI - Cast Iron DI-Ductile Iron EA - Each PVC - Polyvinyl Chloride LF - Linear Feet VC - Vitrified Clay GPM - Gallons Per Minute			Notes: 1. Drawings furnished by Naval Air Station do not always indicate material types. Some material types have been assumed and may not necessarily reflect the actual material in place.			

J8.2.2 Wastewater System Non-Fixed Equipment and Specialized Tools

Table 2 lists the other ancillary equipment (spare parts) and **Table 3** lists specialized vehicles and tools included in the purchase. Offerors shall field verify all equipment, vehicles, and tools prior to submitting a bid. Offerors shall make their own determination of the adequacy of all equipment and tools.

TABLE 2
Spare Parts
Wastewater System, NAS Atlanta

Part #	Description	Quantity
15-BE2	PUMP, 2 HP, 3 PHASE, 220V	2
9S4M1500M5-4	SUBMERSIBLE SEWAGE PUMP, 15 HP, 3 PHASE	1
-----	MOTOR, 5 HP, 3 PHASE, 230/460V, INDUSTRIAL WASTE	1
8146	MOTOR, 5 HP, 3 PHASE, 208/220V	1
3P651C	EJECTOR PUMP, 1 HP, 1 PHASE, 230V	1

TABLE 3
Specialized Vehicles and Tools
Wastewater System, NAS Atlanta

Description	Quantity	Location	Maker
None			

J8.2.3 Wastewater System Manuals, Drawings, and Records

Table 4 lists the manuals, drawings, and records that will be transferred with the system

TABLE 4
Manuals, Drawings and Records
Wastewater System, NAS Atlanta

Qty	Item	Description	Remarks
1	Report	Sewer System Inspection	<i>Dated July 1997</i>

J8.3 Specific Service Requirements

The service requirements and standards for the NAS Atlanta wastewater system are as defined in the Section C, *Description/Specifications/Work Statement*, and Section H, *Special Contract Provisions*. The following requirements are specific to the NAS Atlanta wastewater system and are in addition to those found in Sections C or H. If there is a conflict between requirements described below and Sections C or H, the requirements listed below take precedence over those found in Sections C or H.

J8.3.1 THREAT Compliance

The Contractor must comply with all THREAT conditions that may exist prior to arrival or arise while on base. The Contractor is advised that THREAT conditions can vary daily at the base. The Contractor is further advised that THREAT conditions may cause delays in access.

J8.4 Current Service Arrangement

Sanitary Sewage

NAS Atlanta has a domestic sewage collection system that serves the entire base. The sewage is taken by gravity sewer lines, pump stations and force mains and is discharged into the off-site Air Force Plant No. 6 central treatment plant operated by Lockheed Martin Aeronautical Systems Company. NAS Atlanta has no sewage treatment equipment. Billings from Lockheed for sewage service are based on water usage. Medical Building 550 discharges sewage directly into the Dobbins sewage collection system. The Jet Engine Test Facility 1009 generates no sewage and the Ordnance Complex has a septic tank system. The table below summarizes the sewage flow for NAS Atlanta.

Location	Measurement Unit	Usage 11/97-10/98*
NAS Atlanta	Gallons per Day	30,800

*Based on 70% of water usage.

Industrial Wastewater

NAS Atlanta has an industrial wastewater collection system separate from the domestic sewage system. The collection system mainly collects oily wastewater and pumps it to the

industrial wastewater treatment facility operated by Lockheed Martin off the NAS Atlanta property.

J8.5 Secondary Metering

There are currently no requirements for secondary metering of wastewater included in this contract. Any future wastewater secondary metering requested by the Government will be IAW C.3, Future Secondary Meters.

J8.6 Monthly Submittals

The Contractor shall provide the Government monthly submittals for the following:

1. Invoice (IAW G.2). The Contractor's monthly invoice shall be presented in a format proposed by the Contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to:

Name: Budget Assistant (Code 803)
Address: Naval Air Station Atlanta
1000 Halsey Ave
Marietta, Georgia 30060
Phone number: 770-919-6519

2. Outage Report. The Contractor's monthly outage report (blockage and overflow information) will be prepared in the format proposed by the Contractor and accepted by the Contracting Officer. Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to:

Name: Budget Assistant (Code 803)
Address: Naval Air Station Atlanta
1000 Halsey Ave
Marietta, Georgia 30060
Phone number: 770-919-6519

3. Infiltration and Inflow Report. If required by Clause C.3, the Contractor shall submit a Infiltration and Inflow report in a format proposed by the Contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to:

Name: Budget Assistant (Code 803)

Address: Naval Air Station Atlanta
1000 Halsey Ave
Marietta, Georgia 30060
Phone number: 770-919-6519

J8.7 Infiltration and Inflow (I&I) Projects

IAW C.3, Utility Service Requirement, the following projects have been implemented by the Government for managing and monitoring I&I.

There are no I&I projects currently planned.

J8.8 Service Area

IAW Clause C.4, Service Area, the service area is defined as all areas within the NAS Atlanta boundaries.

J8.9 Off-Installation Sites

NAS Atlanta also owns, operates, and maintains a small sanitary sewage system at the Windy Hill Marine Corps Training Site located south of the base in the town of Smyrna. Utility specific information for the Windy Hill wastewater system is found in Attachment J11.

J8.10 Specific Transition Requirements

IAW Clause C.13, Transition Plan, **Table 5** provides a listing of service connections and disconnections required upon transfer.

TABLE 5
Service Connections and Disconnections
Wastewater System, NAS Atlanta

Location	Description
None	

J8.11 Government Recognized System Deficiencies

Table 6 provides a listing of system improvements that the Government has planned. The Government recognizes these improvement projects as representing current deficiencies associated with the NAS Atlanta wastewater system. If the utility system is sold, the Government will not accomplish these planned improvements. The Contractor shall make a determination as to its actual need to accomplish and the timing of any and all such planned improvements. Capital upgrade projects shall be proposed through the Capital Upgrades

and Renewal and Replacement Plan process and will be recovered through Schedule L-3. Renewal and Replacement projects will be covered through Sub-CLIN AB.

TABLE 6
System Deficiencies
Wastewater System, NAS Atlanta

Project Location	Project Description
NAS Atlanta	Repair Sanitary Sewer Lift Station (Project R13-98)